



View From The Dunes

The official newspaper
of Sleeping Bear Dunes
National Lakeshore



A National Lakeshore For All Seasons

A VISIT TO SLEEPING BEAR DUNES NATIONAL LAKESHORE might be as spectacular in the winter as it is in the summer. That, of course, would depend on what one is looking to do and how many amenities one expects to find available at the time. Approximately one million visitors per year come to the Lakeshore from all over Michigan, the United States and the world. The majority arrive between June and September. However, this park is accessible year-round and these are some of the highlights and activities from which a visitor may choose depending on the season:

Summer: Join a park ranger for a nature walk, a historical tour, an evening campfire program or a life-saving demonstration on the beach. Discover your favorite hiking trail. Drive the Pierce Stocking Scenic Drive and picnic at one of the overlooks. Swim in Lake Michigan or one of the many inland lakes. Take a boat trip to North or South Manitou Island. Step back in time at the Glen Haven General Store and Blacksmith Shop. Explore the Cannery Boat Museum for an excellent collection of Great Lakes wooden vessels. Enter the Maritime Museum and see how important the lighthouses, Coast Guard staff and Life-Saving Service were for sailors of old. Paddle the many lakes and rivers of the park and observe a myriad of bird, fish, and animal life.

Fall: Enjoy the changing colors of the trees before the leaves drop. Peak color is usually during the first or second week of October, depending upon the weather. Look for migrating birds heading south. Drive the Pierce Stocking Scenic Drive and hike the Cottonwood Trail. Hunting is permitted in the Lakeshore, so be sure to wear a brightly colored jacket or hat when trekking during the fall. The beaches are perfect for quiet strolls, contemplation and sunsets. Bundle up!

Winter: The snows of winter usually arrive by mid-December, and by the end of December the trails and back roads of the park are ready for snowshoeing and cross-country skiing. The Pierce Stocking Scenic Drive is transformed into a ski trail. Looking for a real thrill? Check out the designated sledding hill at the Dune Climb – be sure to bring your sled. During periods of extreme cold, mounds of ice can form along the beaches creating large hollow cones known as ice volcanoes. For your safety, walking on snow & ice covered beaches and dunes is not recommended.

Spring: As the snow melts and the forest begins to green, the mushrooms and wildflowers cover the forest floor. See the leaves as they pop out of their buds on the trees. If you are quiet, you might see a partridge or turkey sitting on her nest of eggs. Hike the more exposed trails while the sun and heat are still mild.



Whenever you decide to visit Sleeping Bear Dunes, please remember to come prepared for changing weather conditions. Take the time to appreciate your surroundings and safely enjoy one of the many national treasures protected for you by the National Park Service.

Greetings from the Superintendent

Welcome to the Sleeping Bear Dunes National Lakeshore! It's a privilege and honor for me to serve as the Superintendent of this magnificent National Park site!

Sleeping Bear Dunes National Lakeshore is one of the most scenic and publicly accessible portions of the Lake Michigan shoreline. Some of the Lakeshore's most prominent features include forests, beaches, lakes, dune formations and ancient glacial phenomena in their natural setting. These resources are of global importance due to their relatively unimpacted state, the variety of features present, their proximity to one another, and their protected status. As you travel throughout the Lakeshore, you will notice the Lakeshore's historic maritime, recreation, and agricultural landscapes which are of a size and quality that are unique on the Great Lakes. As you can see, the park offers a broad range of recreational, educational, and inspirational opportunities. What a special place!

Each year, people from all over Michigan, the nation and foreign countries visit and experience the Lakeshore - one of the most beautiful places in the Midwest. The staff and I are very proud that Family Fun Magazine has named Sleeping Bear Dunes National Lakeshore the "Top Family Friendly Nature Escape in the Midwest" for three years in a row!

The Sleeping Bear Dunes National Lakeshore staff and volunteers will continue to provide a high quality service to our customers – you, the visitor. We will strive to enhance the quality of service provided, while protecting and preserving the natural and cultural resources entrusted to our care. As part of the National Park Service, we consider it a privilege to uphold the mission and goals of the service and the park.

We hope that you will assist us in keeping this national treasure a special place – for this, and future generations. Together, as we experience and care for this special place, we can preserve and protect these outstanding resources from uses that could destroy the scenic beauty and natural character of the area.

On behalf of the entire staff and volunteers of Sleeping Bear Dunes National Lakeshore – Welcome and enjoy your stay! We wish you a safe, rewarding and memorable experience and hope that you will visit again soon.

Dusty Shultz
Superintendent


What's Inside...	Page
Park Facilities and Attractions...	2
Fees and Campgrounds...	2 & 3
Traveling to the Manitou Islands...	4
Wilderness...	7
Pets in the Park...	8
What is that Green Stuff?...	9

Barn Again! ... 5

A Smithsonian Institution Traveling Exhibit called *Barn Again! Celebrating an American Icon* is coming to the park this summer for six weeks. From June 28th through August 9th, Sleeping Bear Dunes National Lakeshore and the Glen Lake Community Schools are partnering to sponsor the event. Across the country, Barn Again! is attracting record-breaking audiences to small town museums and gathering interest in barn restorations. See Page 5 for more details.

Volunteers ... 6

Volunteers-in-Parks (VIP's) are very important people and very important partners in our national parks. Each year, hundreds of VIP's from 8 years old to 80+, donate their talents, passion and time to countless projects in the Lakeshore. On page 6, read about Platte River VIP Campground Host Diane Novakowski who went to Washington, D.C. last summer to accept a national award for her dedication to Sleeping Bear Dunes National Lakeshore!



National Park Service

U.S. Department of the Interior

Sleeping Bear Dunes National Lakeshore

Authorized by Congress on October 21, 1970, Sleeping Bear Dunes National Lakeshore encompasses a 60 km (35 mi) stretch of Lake Michigan's eastern shoreline, as well as North and South Manitou Islands. The Park was established to preserve the “outstanding natural features, including forests, beaches, dune formations, and ancient glacial phenomena... for the benefit, inspiration, education, recreation, and enjoyment of the public” . The Lakeshore also contains many cultural features including an 1871 lighthouse, three former Life-Saving Service/Coast Guard Stations and an extensive rural historic farm district.

Mailing Address

9922 Front Street
Empire, MI 49630

Park Headquarters

231-326-5134

Internet Address

www.nps.gov/slbe

E-mail

SLBE_interpretation@nps.gov

Fax Number

231-326-5382

View From The Dunes

Is published by Sleeping Bear Dunes National Lakeshore, Division of Interpretation & Visitor Services, with funds donated by Eastern National.

Planning your trip to the Dunes

Travel Basics

Sleeping Bear Dunes National Lakeshore is located in Northwestern Lower Michigan along the eastern shoreline of Lake Michigan. Closest town is Traverse City, 25 miles to the east. Travel to the park by car, plane or bus.

Car: **From the south** (Detroit / Chicago area), take US-31, US-131, US-27, I-75 and M-72 north to Traverse City, then west on M-72 to the town of Empire. Also from the south via M-22 from Ludington/Manistee/Frankfort area. **From the North** (Upper Peninsula), take I-75 or US-31 south to Traverse City, then west on M-72 to the town of Empire.

Plane: The Cherry Capital Airport in Traverse City (30 miles from the Lakeshore) has connections with Detroit, Chicago, Minneapolis and Cincinnati. The Traverse City Airport is serviced by Northwest, United, American, and Delta Airlines.

Bus: Traverse City has a Greyhound bus station with local bus (BATA) service to Empire.

Below: The 100 foot tall South Manitou Island Lighthouse is a favorite destination for many park visitors. See page 4 for more information about visiting North and South Manitou Island.



2004 Fees and Passes

Per-Person	\$5.00	Valid for up to seven (7) days
(foot, bicycle, motorcycle - single rider, noncommercial organized groups)		
Park Pass (per private vehicle)	\$10.00	Valid for up to seven (7) days
Annual Park Pass	\$20.00	Valid for 12 months from purchase
Golden Age Passport	\$10.00	Lifetime, U.S. Resident, 62 and Over
Golden Access Passport	Free	Lifetime, Permanent Disability
National Park Pass	\$50.00	Valid for 12 months from purchase
Commercial Tour Groups		
Passenger vehicles (1-6 seats)	\$25.00	
Van (7-15 seats)	\$40.00	All Commercial Tour Passes are valid for the date of entry only.
Mini-Bus (16-25 seats)	\$40.00	
Motorcoach (26+ seats)	\$100.00	


Mainland Park Facilities and Attractions

(see page 4 for information on North & South Manitou Islands)


Philip A. Hart Visitor Center

Hours: Open all year, except for Thanksgiving, Christmas and New Years Day.
Memorial Day to Labor Day (Summer), 8:00 a.m. to 6:00 p.m.
Labor Day to Memorial Day (Fall, Winter, Spring), 9:00 a.m. to 4:00 p.m..
Phone: 231-326-5134
Location: On Highway M-72, 500 feet east of M-22 in Empire.
Exhibits: An outstanding slide presentation, “ Dreams of the Sleeping Bear” , offers a beautiful mix of photography, music and narration, while providing an initial orientation to the park. Video and museum exhibits explore the geological story of the Sleeping Bear Dunes area. Human and natural history exhibits fill the remainder of the Exhibit Room.
Facilities: Eastern National Bookstore/sales area. Public restrooms, water fountain, pay phone.
  Assistive listening devices and Portable TTY available. Ask at the front desk. Closed captioning is available for the orientation slide show.

Glen Haven General Store

Hours: May 28 to June 30, 2004, 11:00 a.m. to 4:00 p.m., Closed Tue, Wed, & Thurs.
July 1 to September 6, 2004, 11:00 a.m. to 4:00 p.m., Open Daily
Phone: 231-334-3710
Location: Historic village of Glen Haven, off of M-109
Facilities: Operated by Eastern National, this historic general store appears as it did in the 1920s and offers typical general store merchandise and items related to the history of the Glen Haven area including kitchenware, prepackaged foods, toys, maritime related items and books. Also contains a small museum/exhibit area. Public restrooms are located
 next to the store. A wireless FM assistive listening device is available. Inquire at the store counter.

Sleeping Bear Point Maritime Museum

Hours: May 22 to Sept. 6, 2004, 10:30 a.m. to 5:00 p.m.
Sept. 11 to Oct.11, 2004, Weekends Only
Phone: 231-326-5134
Location: At the end of Sleeping Bear Point, off M-109/M-209
Activities: Daily re-enactment of the U.S. Life-Saving Service rescue techniques. A Lyle Gun firing demonstration occurs every week. Check the weekly Ranger Programs listing for times. Impromptu interpretive talks are also given throughout the day by park staff.
Exhibits: Exhibits cover the U.S. Life-Saving Service, the U.S. Coast Guard, and Great Lakes shipping history. A room on the second floor is outfitted as a Steamer Wheelhouse with a panoramic view of the Manitou Passage shipping channel.
Facilities:  A sand-accessible wheelchair is available to access the beach. Contact the park or volunteer staff for information. Public restrooms are also available.

The Cannery Boathouse

Hours: May 22 to Sept. 6, 2004, 11:00 a.m. to 4:00 p.m.
Location: At the bend in the road in the historic village of Glen Haven, off M-109.
Activities: Volunteer staff available for impromptu interpretive talks.
Exhibits: Historic boat collection including vessels, motors and equipment.
Facilities: Public restrooms are available next to the Glen Haven General Store.


The Glen Haven Blacksmith Shop

Hours: June to early October, 2004, Daily depending on available staff, 10:00 a.m. to 4:00 p.m.
Location: In the historic village of Glen Haven, off M-109.
Activities: Fully restored 1920s Blacksmith Shop provides blacksmith demonstrations for all ages. Come and see how bars of iron are transformed into beautiful and useful items.
Facilities: Public restrooms are available next to the Glen Haven General Store.

Pierce Stocking Scenic Drive

Hours: April 17 through November 11, 2004, 9:00 a.m. to one half hour after sunset.
Location: From Empire, take M-22 north for 2 miles to M-109, then left on M-109 for 2 miles.
Facilities: 12 numbered stops are found along this 7.5 mile scenic loop road. Spectacular overlooks of Lake Michigan and the Sleeping Bear Dunes. Public restrooms are available at the entrance parking area, Picnic Mountain Lake Michigan Overlook, and North Bar Overlook. Picnic areas are available at Picnic Mountain and North Bar Overlook.

The Dune Climb

Hours: Open all year, 24 hours a day
Location: From Empire, take M-22 north for 2 miles to M-109, then left on M-109 for 4 miles.
Facilities: Great family fun location to climb the dunes. Public restrooms, pay phone, water fountain, and vending machine snacks and drinks are available.
 Sand-accessible wheelchair is available at the Dune Center Bookstore. Duneside Accessible Trail leaves from the north end of the parking lot.

The Dune Center

Hours: May 29 to June 30, 2004, 11:00 a.m. to 4:00 p.m., Closed Tue, Wed, & Thurs.
July 1 to Sept 6, 2004, 11:00 a.m. to 4:00 p.m. Open Daily
Phone: 231-334-2010
Location: At the base of the Dune Climb, off of M-109
Facilities: Eastern National sales area, featuring T-shirts, sweatshirts, hats, postcards, books, videos, etc. Public restrooms and vending machines available next to the Dune Center.
 A sand-accessible wheelchair is available for use in the Dune Climb area. Contact the Eastern National sales employee at the front desk.

2 View From The Dunes

Park Regulations

- Visitors to the National Lakeshore are required to purchase a Park Pass.
 - Please do not drive off established roads.
 - Pets are generally permitted within the National Lakeshore. However, they must be kept on a six foot (6') leash at all times. A number of areas are closed to pets. **See page 8 for a complete listing of pet regulations.**
 - Camp only in designated campgrounds, except on North Manitou Island.
 - Fires are permitted only in campground fire rings and picnic area grills.
 - Beach fires are restricted to bare beach sand between the water's edge and the first dune and are not permitted on North and South Manitou Islands.
 - Do not collect ghost-forest wood or other wood on the dunes, or disturb plants or natural objects.
 - You may pick a limited quantity of mushrooms and fruit for personal use.
 - Bicycles are not permitted off established roads.
 - Glass containers are prohibited on any beach or dune area used for sunbathing, swimming, or wading.
 - Horses are permitted only on the Alligator Hill Hiking Trail.
-
- **Descending steep sand dune bluffs causes erosion and is dangerous. Please stay on established trails.**
-
- **For the protection of Piping Plover nesting areas, portions of North Manitou Island, Glen Haven, Tiesma beach, and Platte Point beach are closed each spring. Visitors can walk around the closed areas, which are signed and roped. Contact a Ranger if you have questions.**
-
- **Bicyclists planning to ride the Pierce Stocking Scenic Drive should consider their abilities and the condition of their bicycle before starting. The Scenic Drive is a challenging bicycle tour and contains several steep uphill and downhill grades. Stay to the right side of the roadway and ride defensively.**

Important Notice for Stop #9 on the Pierce Stocking Scenic Drive

The National Park Service has begun efforts to restore damaged dunes at this location. Please help us with this effort by staying on the boardwalks. Climbing on the steep rocky bluff is hazardous and serious injuries are common. Foot traffic, combined with natural forces, has severely eroded the bluff and the dune. For your safety and to protect the natural features, please do not climb at this location. The Dune Climb is recommended as a safer location for climbing.

Fees Help Sleeping Bear

Welcome! Sleeping Bear Dunes National Lakeshore is being cared for today and preserved for future generations by the American people. This dual objective of use and preservation comes at a price: protecting our natural and cultural heritage while ensuring that everyone has a safe, enjoyable and educational experience costs money.

Even as the number of visitors to National Parks continues to climb due to the increased popularity of these national treasures, government funding available for facilities and services has not kept pace with demand. In 1996, to address these needs, Congress directed the U.S. Department of the Interior to implement the Recreation Fee Demonstration Program. The program will help spread some of the costs for managing these lands among those who use them. As a participant in this program, Sleeping Bear Dunes National Lakeshore has collected user fees since 1997.



Managing our public lands is a major financial investment. While most of that investment comes from our general tax base, those who use this park for recreation derive a greater benefit from and place a greater burden upon park resources than the public at large. These fees redistribute that burden so that users pay an increased share of the costs.

Eighty percent (80%) of the fees collected will remain in the park where they are collected, with the remainder being distributed to other parks as needed. The money collected at Sleeping Bear Dunes National Lakeshore has been and will continue to be used for:

- Repairs and improvements to roads, buildings, campgrounds and trails.
- Updated signs and exhibits.
- Educational programs, guided walks and hikes and other visitor activities.
- Protection and restoration of natural habitats found within the park.
- Stabilization and restoration of historic structures.
- Visitor safety and protection.

The future of these public lands rests with all American citizens. The action we take today will reflect the price we are willing to pay to pass these lands on to future generations, protected and in better health. We need and appreciate your support.

Thank You

USERFee
improves this park



Park Campgrounds

Platte River Campground

Make a reservation by calling 1-800-365-2267 (CAMP)
Season: Open All Year (Reservations accepted during the summer months)
Location: Just off of M-22, 12 miles south of Empire, MI.

Platte River Campground offers many different styles of camping. There are regular and pull-through sites with electricity for RVs, beautifully wooded & private tent campsites, walk-in tent sites, and group campsites that can accommodate up to 25 people. Flush bathrooms and hot showers are available in each of the four loops of the campground. Shower tokens are available at the Ranger Station; 2 tokens for a dollar, with each token providing 3 minutes of hot water. Each site is equipped with a tent pad, picnic table and fire ring. The firewood concession is open during the evenings. A dump station for RVs is located at the entrance to the campground. Of the 179 campsites available in the campground, 45 sites and 5 group sites are reservable through the National Park Reservation Service. Individual campsites may be reserved May 28 to September 7, 2004. Group campsites may be reserved May 1 to September 30, 2004.

Campsite Fees:	Walk-in Campsite	\$12.00 per night
	Regular Campsite	\$16.00 per night
	Group Campsite	\$40.00 per night
	Electricity	\$5.00 per night

Golden Age and Golden Access Passport holders receive one half off Walk-in and Regular Campsite fees. This discount does not apply for group campsites or for the nightly fee for electricity.

D.H. Day Campground

Season: Open April 3 to November 25, 2004
Location: Along M-109, just east of Glen Haven and 6 miles north of Empire, MI.

D.H. Day Campground is Sleeping Bear Dunes National Lakeshore's rustic drive-in campground. If your family enjoys a slightly more rugged camping experience, then D.H. Day is worth checking out. With 88 wooded and private campsites and easy access to Lake Michigan beaches, the campground offers an excellent setting. All campsites at D.H. Day are first-come, first-serve (no reservations). Each site is equipped with a tent pad, picnic table and fire ring. The firewood concession is open during the evenings. Vault toilets and water spigots are found throughout the campground. A dump station for RVs is located at the entrance to the campground. Generator use is permitted in sites 1 thru 31 from 9:00 a.m. to 6:00 p.m. only.

Campsite Fees:	Regular Campsite	\$10.00 per night
----------------	------------------	-------------------

Golden Age and Golden Access Passport holders receive one half off the nightly camping fee.

D.H. Day Group Campground

Make a reservation by calling 1-800-365-2267 (CAMP)
Season: Open All Year (Reservations required during the summer)
Location: Along M-109, just north of the Dune Climb, then turn west on Harwood Road. Harwood Road is not plowed during the winter.

D.H. Day Group Campground is separate from the regular campground and contains 4 campsites that can accommodate up to 25 people each. These sites are reservable through the National Park Reservation Service from May 28 to September 30, 2004. During the rest of the year the campsites are available first-come, first-serve. Each campsite is equipped with numerous picnic tables and a fire ring. A firewood concession is not available at the campground, so campers should plan to visit the wood concession at the D.H. Day Campground during the evening.

Campsite Fees:	Group Campsite	\$30.00 per night
----------------	----------------	-------------------

During the winter when the water is turned off, camping fees are reduced to \$15.00 per night.

Evening Programs



When the rush of a summer day is done and the shadows grow longer, enjoy the cool relaxed early evening while you explore some of the National Lakeshore's most interesting and beautiful locations with a ranger. Programs range from traditional campfire talks to walks to see wildlife, hear night sounds, or visit historic sites. Programs end in time for you to enjoy the sunset from a new and dramatic location.

Evening programs begin in late June and continue through Labor Day. **A schedule of program titles, times, and locations is updated monthly and is available at the Philip A. Hart Visitor Center and campground ranger stations.**

Programs are not just for campers. All visitors to the park are invited to attend.

For programs given at the Platte River Campground, parking is available at the Ranger Station lot. The amphitheater is reached by paved trail or stairway which leaves from the parking lot. For directions to handicap accessible parking located behind the amphitheater, please inquire at the Ranger Station.

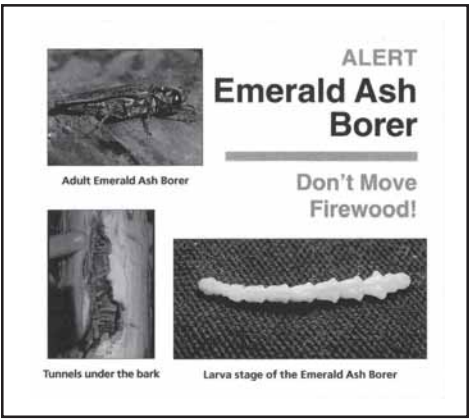
For programs given at the D.H. Day Campground, parking is available by the log cabin at the rear of the campground. It is then a short walk along the loop road to access the amphitheater.

What is the Emerald Ash Borer?

Did you bring a supply of firewood with you for your campfire? If so, we need your help in dealing with a serious problem that has the potential to destroy all of the ash trees in the forests of Northern Michigan. A recent insect invader from Asia, known as the Emerald Ash Borer, is currently invading the southeast area of Lower Michigan. The affected counties are currently under a State of Michigan quarantine, making it illegal to transport ash wood, including firewood, outside the quarantine area.

If you have already arrived with a load of firewood that you brought here from another area, please do the following:

- Do NOT unload the firewood on the ground at your campsite.
- You may still burn the firewood in your campsite fire ring, but place it



- directly from your vehicle into the fire, without letting it sit on the ground.
- The wood needs to be completely burned in the fire.
- When you are ready to pack-up and leave your campsite, please take your unused firewood with you. Do not leave it in the campsite, or give it to others.

- The associated sawdust and pieces of bark from imported wood should also be carefully handled, as they too can harbor pests. Be sure to not brush these pieces to the ground when you clean your vehicle, but carefully place them in the fire.

All of this, of course, does not apply to kiln dried lumber. Just make sure you do not burn any preserved lumber, as it releases toxins while it burns.

Firewood, for use in the campgrounds, can be collected from park lands using any dead and down trees which you may find, but we ask that you use a hand saw or axe instead of a chainsaw to preserve the quiet for other visitors. Firewood is also available for purchase from the firewood concessions at Platte River and D.H. Day campgrounds.

Free Ranger Programs

“I had been coming here for years and never understood how the glaciers formed this area. Ranger Marie not only explained the process, but made it interesting for my whole family.”

“I love coming to the park and going on a walk with a park ranger. I always learn something new and appreciate Sleeping Bear Dunes more every time.”

These are just two of the many comments received from park visitors about their experiences attending ranger programs. Every summer, a knowledgeable cadre of



Visitors enjoy a Ranger-led Hike along the Cottonwood Trail

National Park Rangers assists visitors in exploring, discovering and learning more

about the fascinating features of Sleeping Bear Dunes National Lakeshore in a variety of settings. Join them on a nature walk along the dunes, a talk about maritime rescues on the beach, a walk through history on a rustic farmstead, up a flight of steps in an island lighthouse or at an evening campfire program under the stars in a campground.

Everyone is invited to join the rangers on one or all of the programs offered. Please check at campground ranger stations and the Visitor Center for up to date program times and locations.

You Should Hear What You’ve Been Missing

Sleeping Bear Dunes National Lakeshore has initiated a program aimed at improving the park's ability to provide information and interpretive services to members of its staff and the visiting public who have experienced some degree of hearing loss. To accomplish this, the park has installed a permanent Assistive Listening Device at the Philip A. Hart Visitor Center Information Desk. A compact TTY device is also available for use at the visitor center's pay telephone. For interpretive programs in the visitor center, ranger-led walks out on the trail, or for evening programs at the campgrounds, portable wireless FM Assistive Listening Devices are also available. A portable wireless device is also available at the Glen Haven General Store. Rangers are trained in the use of this technology. Visitors are urged to request the amplification devices by calling the Visitor Center in advance of an interpretive program at 231-326-5134 ext. 328.



Assistive Listening Device at the Philip A. Hart Visitor Center Information Desk

Lake Michigan Beach Fires

Beach fires are permitted only on the mainland beaches of Lake Michigan between the water's edge and the first dune. Please do not build fires on or near vegetation. You can help by extinguishing your fire with water and cleaning up all debris before leaving. Thank you for helping us keep the beach fire tradition from dirtying up the beaches.

Traveling to the Manitou Islands

The lure of the Manitou Islands is irresistible for many Lakeshore visitors. As guardians of the Manitou Passage, North and South Manitou Islands have beckoned to people throughout history. Today, visitors are drawn to the islands to stroll through the historic Coast Guard villages and tour the South Manitou Island Lighthouse. Still others come to day-hike the trails and beaches, or backcountry camp in the wilderness setting of the islands.

Access to North and South Manitou Islands is by private boat or by passenger ferry service operated by Manitou Island Transit. The ferry service operates from the Fishtown Dock located in Leland, Michigan. The ferry operators have been servicing the islands for many generations and the company is still run as a family business today.



For Passenger Ferry reservations, contact
Manitou Island Transit at:
231-256-9061

For Information: www.leelanau.com/manitou/

Between June and August, the ferries for each island leave daily from the Fishtown Dock in Leland at 10:00 a.m. Reservations are recommended. Plan to arrive at the Fishtown Dock 45 minutes prior to departure (Leland is located 27 miles north of Empire on M-22).

South Manitou Island: The motor vessel *Mishe-Mokwa* sails for South Manitou Island and lays over for five hours before returning to Leland. This gives day-use visitors time to explore some of the 22 miles of trails on the island and take advantage of the motorized island tour, which is also operated by Manitou Island Transit. Ranger-guided tours of the 100-foot-tall South Manitou Island Lighthouse are also available. The ferry departs at 4:30 p.m. and arrives back at Leland at 6:00 p.m.

North Manitou Island (overnight backcountry stay required): The motor vessel *Manitou Isle* sails for North Manitou Island. Upon arrival, the ferry remains at the dock just long enough to exchange passengers and cargo before returning to Leland. Visitors to the island can see the historic Coast Guard village, and backcountry camp in nearly 15,000 acres of pristine wilderness.

Backcountry Camping

Backcountry camping within Sleeping Bear Dunes National Lakeshore is available in designated sites on the mainland and South Manitou Island and as described below on North Manitou Island. Purchase of a Backcountry Permit is required. Backcountry campsites are limited to four (4) people and two (2) tents per site. Pets and bicycles are prohibited. Fires are permitted only in established fire rings. Gather only dead and down wood. Treat all water obtained from backcountry sources.

Group camping is permitted on North and South Manitou Islands. Group campsites on South Manitou Island are limited to 20 people. Group camping on North Manitou Island is limited to 10 people. BETWEEN MEMORIAL DAY AND LABOR DAY, GROUP CAMPSITES ON SOUTH MANITOU ISLAND MUST BE RESERVED THROUGH THE NATIONAL PARK RESERVATION SERVICE. CALL 1-800-365-2267, OR MAKE A RESERVATION ON-LINE AT WWW.RESERVATION.NPS.GOV.

Fees	Backcountry Permit	\$5.00 per night
	South Manitou Backcountry Group Permit	\$20.00 per night
	North Manitou Backcountry Group Permit	\$10.00 per night

White Pine Backcountry Campground: Located on the mainland, White Pine is situated in the southern portion of the National Lakeshore, about 2.5 miles north of the Platte River Campground. There are six (6) campsites and one (1) fire ring. Passes and permits may be obtained at the Platte River Campground and at the Philip A. Hart Visitor Center in Empire.

Valley View Backcountry Campground: Also located on the mainland, Valley View is situated in the northern portion of the National Lakeshore. Access to the trailhead from Highway M-22 is by way of Hyland Road, 2 miles north of Glen Arbor, Michigan. Hiking distance from the trailhead to the campground is 1.5 miles (up hill!). There are five (5) campsites and two (2) fire rings. Passes and permits may be obtained at the D.H. Day Campground (summer only) and at the Phillip A. Hart Visitor Center in Empire. There are no water sources, so all water must be packed in.

South Manitou Island: Designated backcountry campsites are available at:
Bay Campground - - - - - (22 campsites and 3 group campsites)
Weather Station Campground - - - - (17 campsites and 3 group campsites)
Popple Campground - - - - - (6 campsites and no group sites)
Fires are permitted only in established fire rings. Passes and permits are available at the Fishtown Dock in Leland, Michigan and from the rangers on the island.

North Manitou Island: Backcountry wilderness camping is allowed. There are also eight (8) designated sites at the Village. Camping is prohibited on any trail and within 300 feet of the Lake Michigan High water mark, lakes, streams, ponds, springs, buildings or other campers. Passes and permits are available at the Fishtown Dock in Leland, Michigan and from the rangers on the island.

Smithsonian *Barn Again!* Exhibit Visits Sleeping Bear Dunes in 2004

THE TRAVELING SMITHSONIAN EXHIBIT, *Barn Again! Celebrating an American Icon* will be on display in the one-room Port Oneida Schoolhouse for six weeks this summer. The exhibit will be open from June 28 through August 9th, Mondays, Fridays, and Saturdays, 10:00 a.m. to 1:00 p.m. and Wednesday evenings from 5:00 p.m. to 8:00 p.m. The schoolhouse, owned by Lakeshore partner Glen Lake Community Schools, is one of eight sites in Michigan that will be hosting this national exhibit. The schoolhouse is located on Port Oneida Road just off M-22, four miles north of Glen Arbor in the Port Oneida Rural Historic District.



The park and Glen Lake Community Schools are sponsoring several related educational activities including presentations, barn tours, barn dances, art and writing projects. During the spring, students created art work about farm life and collected oral histories from grandparents and other members of the community whose relatives settled this part of Michigan. These works will be on display around the exhibit during its six week stay. Lakeshore visitors will have an opportunity to see full size examples of historic barns when Park Rangers lead special tours of barns in the Port Oneida Rural Historic District. Anyone interested in more information on the barn tours should contact the park for details.

The park will kick off the Smithsonian barn exhibit tour with the annual Michigan Barn Preservation Network public workshop. This year’s workshop will be June 26-27th (from 9:00 am to 4:00 pm) and will focus on joinery details for log structures. The site for the workshop is the Shalda Log Cabin on M-22 and M-669, approximately seven miles north of Glen Arbor, directly across the road from the Bicentennial Barn. This will be the eighth consecutive year that this workshop has occurred in the park. This year’s focus will be on hewn log structures illustrating techniques common on structures built in the early 1850s settlement period of Leelanau County. The course is set up so participants receive “hands-on” training of all techniques. The course will include 1) notching techniques, 2) replacing deteriorated logs, 3) adze hewing, 4) chinking formulas and application, and 5) safety and equipment. Anyone interested in signing up for the workshop should contact the park at 231-326-5134, ext. 501.

The Smithsonian: *Barn Again! Celebrating an American Icon* finale will be the third annual *Port Oneida Fair: A Celebration of Rural Culture*, August 6-7th at various locations in the Port Oneida Rural Historic District. The events begin at 10:00 a.m. and end at 5:00 p.m. Shielding Tree Nature Center will again be hosting their popular barn dance on Saturday night, August 7th at 8:00 p.m. Sleeping Bear Dunes National Lakeshore hosts the fair at five farms in Port Oneida, and the Port Oneida Schoolhouse. Presenters showcase traditional rural skills and crafts. Persons interested in more information about the exhibit or the fair, should contact the Visitor Center at 231-326-5134, ext. 328 or visit the web at: www.leelanau.com/fair.



3rd Annual Port Oneida Fair Brings Rural Historic District to Life

ANY DAY OF THE YEAR, LAKESHORE visitors can explore the 3500 acre Port Oneida Rural Historic District. Many visitors over four decades old can easily imagine daily life on the farms when they see the remaining buildings and landscape. The big barns suggest fields of hay and livestock in the barn yards. Corn cribs recall rows of corn, and the granary suggests fields of waving oats and threshing machines. Wire fences bring forth images of sheep on a green pasture hillside and horse stalls evoke visions of teams pulling wagons overflowing with hay.

Because the family farm has almost completely disappeared, younger visitors may have a more difficult time

understanding how this landscape looked and functioned. While the buildings bring forth feelings of an earlier time, life in that time is a mystery.

But for two days each summer, the Port Oneida Rural Historic District comes alive with traditional activities. The fair showcases the crafts, skills, and talents that made rural life productive and enjoyable. Lakeshore neighbors volunteer their time to demonstrate traditions, skills, and crafts. Oxen pull a hay cutting implement and workers show youngsters how to use wooden rakes and pitch forks to build a hay stack. Blacksmiths, potters, barn builders, quilters, spinners, story tellers and musicians are there to share their

2004 Special Events Calendar	
Event Date & Time	Description of Event
May 21, 2004 9:00a.m.	Garlic Mustard Plant Pull Volunteers should meet at M-22 & Long Lake Road
June 26 & 27, 2004 9:00 a.m. to 5:00 p.m. daily	Michigan Barn Preservation Network Workshop Shalda Log Cabin, Intersection of M-22 & Route 669
June 28 through August 9, 2004 Mon, Fri, & Sat 10:00 a.m. to 1:00 p.m. Wed evenings 5:00 p.m. to 8:00 p.m.	Barn Again! Smithsonian Exhibit Port Oneida Schoolhouse
July 10, 2004 1:00 p.m.	Book Signing - “Vintage Views of Leelanau County” Philip A. Hart Visitor Center
July 18, 2004 7:00 p.m. to 9:00 p.m.	Annual Dune Climb Concert At the base of the Dune Climb
August 6 & 7, 2004 10:00 a.m. to 5:00 p.m. daily (with a few events until 10:00 p.m.)	Port Oneida Rural Arts and Culture Fair Port Oneida Rural Historic District
August 21, 2004 10:00 a.m. to 5:00 p.m.	Life-Saving Service Festival Sleeping Bear Point Maritime Museum
September 18, 2004 9:00 a.m. to 12:00 p.m.	Coastal Clean-up Day Locations to be announced
Each year Sleeping Bear Dunes National Lakeshore hosts a variety of special events. This year is no exception! From the Barn Preservation Workshop in late June to Coastal Clean-up Day in September, there is something happening every month of the summer. For more information about any of these special events, call the park at 231-326-5134.	



Lakeshore Volunteer Receives *Take Pride In America* and *Presidential Service* Awards

DIANE NOVAKOWSKI, A CAMPGROUND Host at Platte River Campground, was the 2003 individual award winner for “Take Pride in America”. She also received the Presidential Service Award.

The first award was one of only 15 “Take Pride in America” awards presented to individuals and groups. The Presidential Service Award is dedicated to fostering a culture of service to others. Both awards were presented to Ms. Novakowski in a ceremony at Washington D.C. The Secretary of the Interior, Gale Norton, presented the “Take Pride in America” Award and John Bridgeland, Director of USA Freedom Corps, presented Ms. Novakowski the “President’s Service Award.” Also present at the awards ceremony were Director of the National Park Service, Fran Mainella, and National Coordinator of Volunteers for the National Park Service, Joy Pietschmann.



From left to right: Fran Mainella, Director, National Park Service; Diane Novakowski; John Bridgeland, Director, USA Freedom Corps and representing President Bush; Gale Norton, Secretary of the Interior; and Marti Albright, Executive Director, Take Pride in America.

The national award honors Ms. Novakowski for “outstanding stewardship” in her role as a volunteer and campground host at Sleeping Bear Dunes National Lakeshore. Over the past 19 years she has been more than willing to lend a hand wherever the park needed her. Her duties have included, but are not limited to, litter pickup, registering campers, patrolling trails, cleaning campsites, cleaning of outhouses and restrooms, supervising other volunteers, operating the park’s computer system, and participating in searches for lost campers. Special projects have been especially fun because of their uniqueness, such as dismantling an abandoned outhouse, removing old fencing, and planting trees in restored areas. All together, Ms. Novakowski has donated more than 10,000 hours of volunteer service to the park!

Ms. Novakowski reported that her trip to Washington D.C. was a tremendous experience as it was the first time there. She was impressed with the monuments, the open green spaces, the cultural experiences, and she said that the weather was just fantastic. She was treated with respect and felt very special to be representing Sleeping Bear Dunes National Lakeshore as a recipient of these national awards.

Superintendent Dusty Shultz congratulated Diane for being selected as a 2003 “Take Pride in America” and the Presidential Service Award winner. “Ms. Novakowski has been a true example of volunteering here at Sleeping Bear Dunes. She is one of



Above and Right: Platte River Campground Volunteer Host Diane Novakowski receives the Take Pride in America and Presidential Serice Awards.

483 individual and group volunteers who have donated a total of 26,568 hours. The volunteer program here at Sleeping Bear Dunes National Lakeshore has been a very positive influence on the operation of the Lakeshore during times of fiscal hardships. Without the volunteers, the Lakeshore would not be able to provide services and keep facilities operating for extended hours.”

If you have questions about Sleeping Bear Dunes, Platte River Campground or the volunteer program, see Diane – she’s the one with the big smile on her face!



My Classroom Without Walls

MY NAME IS JOSH. I’M A SENIOR AT GLEN Lake High School here in Northern Lower Michigan. On my high school football team I’m known as number 57, but here at Sleeping Bear Dunes National Lakeshore, I’m identified as 477, my National Park Service Intern/Volunteer radio call number. Unlike many high school students who are unable to pursue their career goals while still in high school, the Glen Lake High School internship program and the National Park Service have given me the opportunity to begin the pursuit of my dream of becoming a natural resource law enforcement officer.

Since I was young I have always enjoyed hunting, fishing and every aspect of the outdoors which I share with my father and grandfather. Sharing the outdoors with friends and relatives has always been a big part of my life. I think that it’s important to preserve and to protect the environment for future generations to come. It has always bothered me to see people abusing our natural resources. It is important for me to have a career that is interesting and enjoyable, one that is also beneficial to the environment and the individual.

My internship here at the Lakeshore continues to expand my job experience and knowledge. As a natural resource law enforcement officer I will need to have a wide diversity of skills and abilities, some of

which I am getting the opportunity to observe and practice during my nine months as an intern at Sleeping Bear Dunes National Lakeshore.

During my time here in the Lakeshore, I have had a chance to participate in many activities, gaining a better knowledge of the park operations. I started my internship during the month of September, working with Roads and Trails, a branch of the maintenance division. During this time I learned how the park restores former house sites to make them look as natural as possible. After working with Roads and Trails for about a month, I started working with one of the Platte River District rangers. I spent a month working in the field with him and learned more that I ever thought possible. I was then sent to work with a Leelanau District ranger for about two weeks where I learned a lot of important things. By this time the weather was getting cold and I began to work in the office with the Facility Management Software System where I entered labor reports into the computer.

Working with Resource Management was something new and I enjoyed learning more about site restoration. One of the tasks that I helped with was preparing critical dunes permit applications. I also worked in the Dispatch office and with new computer programs to enter

backcountry camping permits. Next I had a chance to work with some of the park’s interpretive programs which was interesting and fun. In the spring I worked with Buildings and Utilities, another branch of the maintenance division, where I learned the importance of maintaining the historic buildings in the park.

I really appreciate the National Park Service, Glen Lake School, and TBA-Tech

Center for giving me an opportunity to get one step closer to my career. These experiences have allowed me to acquire a wide range of skills that will be helpful in the future. For students that are interested in this kind of career opportunity you can contact Gail Purifoy or Tom Fettes at: (231) 326-5134, extensions 203 or 204. They will be happy to give you any information you want to know about interning in the park.

VOLUNTEERS MAKE A DIFFERENCE!

Americans have enjoyed a love affair with their National Parks since Yellowstone, the first National Park in the world, was created in 1872. Now you can help care for your parks by joining the 145,000 people nationwide who volunteer their time and talents each year.



At Sleeping Bear Dunes National Lakeshore in 2003, 483 VIP’s (Volunteer-in-Parks) donated 26,568 hours of work, with an estimated value of over \$426,000. VIP’s have assisted in many facets of park operation. Whether acting as campground hosts, operating visitor centers and museums, or performing building or trail maintenance, volunteers have provided invaluable and necessary support.

To apply for a VIP position, fill out the application found in the “Volunteers” brochure and mail it or drop it off at park headquarters in Empire. The Volunteer Coordinator will review your application and pass it along to the park supervisor who has work that best fits your skills and interests. For more information, call Lisa Myers, Volunteer Coordinator, at (231) 326-5134.

Wilderness at Sleeping Bear Dunes

CONGRESS PASSED THE WILDERNESS Act of 1964 to maintain some of America’s great lands in an unspoiled condition. When Sleeping Bear Dunes National Lakeshore was established, Congress required that the National Park Service (NPS) review the lands for wilderness suitability. This eventually led to a 1981 *Wilderness Recommendation* that proposed 30,903 acres of the park; 7,128 acres of “recommended” wilderness and 23,775 acres of “potential” wilderness. Potential wilderness means the area would meet wilderness criteria if and when uses that aren’t compatible with wilderness (such as county roads or private property) could be removed. At that time, the public supported the NPS *Recommendation*. The *Recommendation* was forwarded to the Department of the Interior, it never officially reached Congress for action.



In 1982, Congress passed a law requiring that the areas described in the 1981 *Wilderness Recommendation* be administered to “maintain their presently existing wilderness character until Congress determines otherwise.” NPS policy also requires this, and these areas have been managed as wilderness since the *Recommendation* was completed. Public opinion has changed somewhat since 1981, and many people would now like some

areas removed from the *Recommendation*, especially county roads going to beaches. Some of these ideas may have merit, and the NPS has determined that minor changes could be made without violating the 1982 law. However, making any substantial changes in the *Recommendation’s* acreage would require that a new study and recommendation be prepared. Even if this were done, we would still be required to maintain the wilderness character of the areas proposed in the 1981 *Wilderness Recommendation* unless and until Congress passed a new recommendation.

It is clear that resolution of the wilderness issue is necessary before we can begin any major planning efforts for the park. We are meeting with interested groups to find out what people think should be done given the current legal situation. We are providing background information and answering questions on what wilderness means at Sleeping Bear Dunes National Lakeshore. Our intent is for this process to produce a recommendation that the



What is Wilderness?

The Wilderness Act of 1964 defines wilderness in the following way: “A wilderness, in contrast with those areas where man and his own works dominate the landscape, is hereby recognized as an area where the earth and its community of life are untrammelled by man, where man himself is a visitor who does not remain. An area of wilderness is further defined to mean in this Act an area of undeveloped Federal land retaining its primeval character and influence, without permanent improvements or human habitation, which is protected and managed so as to preserve its natural conditions and which (1) generally appears to have been affected primarily by the forces of nature, with the imprint of man’s work substantially unnoticeable; (2) has outstanding opportunities for solitude or a primitive and unconfined type of recreation; (3) has at least five thousand acres of land or is of sufficient size as to make practicable its preservation and use in an unimpaired condition; and (4) may also contain ecological, geological, or other features of scientific, educational, scenic, or historical value.”



public will support and Congress will act upon, thus resolving the uncertainty surrounding these issues and allowing us to move ahead with planning efforts. Fortunately, this process will have no effect on your visit to Sleeping Bear Dunes. You are welcome to enjoy this beautiful place, including the areas proposed for wilderness, as you always have. Many visitors to the Lakeshore seek out the qualities that wilderness provides such as naturalness and solitude. In these areas, you can hike, swim, camp, canoe, sightsee, hunt, fish, participate in guided trips, go on ranger programs, visit historic resources, and use wheelchairs, service animals, and other accommodations for the disabled. Numerous county roads lead directly to Lake Michigan beaches. With just a short hike, you can leave the crowds behind and find a stretch of shoreline all to yourself.



The park has been working to balance our legal obligations and the concerns of the public with our sometimes difficult mission of preserving the wide variety of resources and values of Sleeping Bear Dunes in perpetuity, while still providing visitors opportunities to enjoy them. We believe that wilderness can be resolved in a way that will meet the mission of the Lakeshore and be supported by a wide range of interests. If you are interested in learning more about wilderness at Sleeping Bear Dunes, pick up a site bulletin at the Visitor Center or contact park headquarters at 231-326-5134. For information about wilderness in the National Park Service, visit the web at www.wilderness.nps.gov.



Did You Bring A Pet With You?

SLEEPING BEAR DUNES NATIONAL Lakeshore welcomes you and your pets to enjoy the park together. Like most outdoor activities within a National Park area, there are some rules and regulations that apply to having a pet with you here at the Lakeshore. These have been established for the safety and enjoyment of both visitors and pets alike. It should be noted that the violation of these rules and regulations could result in receiving a federal Violation Notice (ticket) which includes a fine and a possible appearance in federal court.

Trained assistance dogs accompanying impaired persons are permitted throughout Sleeping Bear Dunes National Lakeshore. Pets are generally permitted within the Lakeshore except in certain limited areas designated as “no-pet areas”. These areas can be determined by a “No Pets” sign and by referencing the map to the right. A small percentage of the park has been closed to pets for the protection of wildlife and to ensure the enjoyment of all park visitors. Additionally, all trails designated as cross-country ski trails during the winter months (December 1 – March 31) are closed to pets. This closure is due to the possible conflict between pets and winter sports activities. However, this does not include all of the other hiking trails or areas of the park that are open year around for you and your pets’ enjoyment.

The following are some of the rules and regulations that a pet owner must adhere to:

- Pets must be controlled on a six-foot or less leash at all times.
- Pets cannot be left unattended or tied to an object.
- Pet owners may not allow a pet to make noise that is unreasonable.
- Pet excrement is the owner’s responsibility and must be disposed of in trash receptacles.
- Pets cannot be allowed to disturb or harass wildlife.

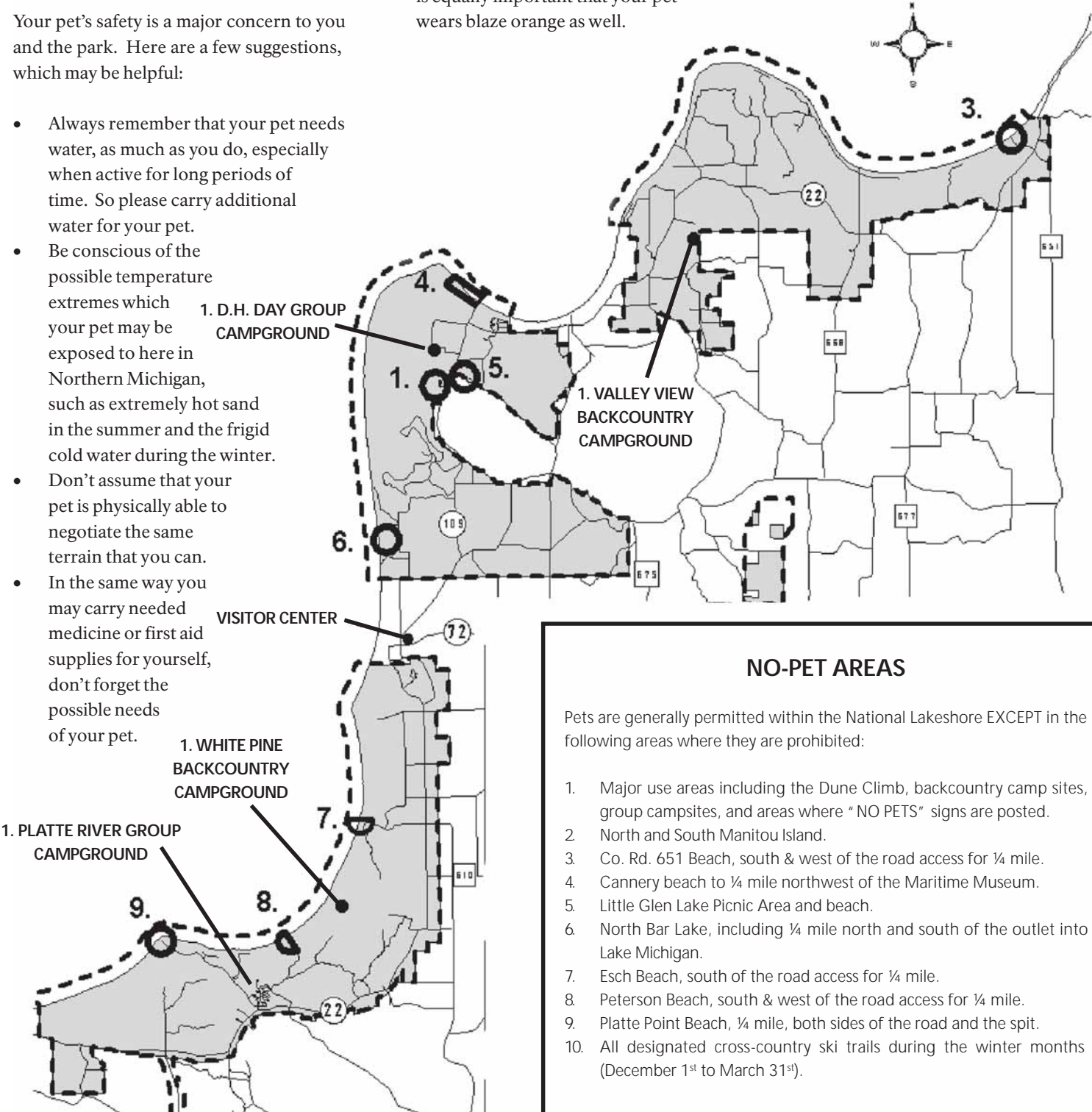
- The training of hunting dogs in the park is prohibited. It should be noted that hunting dogs are not considered pets when used in conjunction with authorized hunting activities during the mainland firearms seasons set by the State of Michigan.

Your pet’s safety is a major concern to you and the park. Here are a few suggestions, which may be helpful:

- Always remember that your pet needs water, as much as you do, especially when active for long periods of time. So please carry additional water for your pet.
- Be conscious of the possible temperature extremes which your pet may be exposed to here in Northern Michigan, such as extremely hot sand in the summer and the frigid cold water during the winter.
- Don’t assume that your pet is physically able to negotiate the same terrain that you can.
- In the same way you may carry needed medicine or first aid supplies for yourself, don’t forget the possible needs of your pet.

- It is important for both the safety of your pet and the park’s wildlife that you do not allow the two to interact.
- During hunting season it is recommended that park visitors wear blaze orange for their safety. And so it is equally important that your pet wears blaze orange as well.

If you have any questions concerning your visit with a pet, please contact any Ranger or call 231-326-5134. We hope that you and your pet have a safe and enjoyable visit at Sleeping Bear Dunes National Lakeshore.

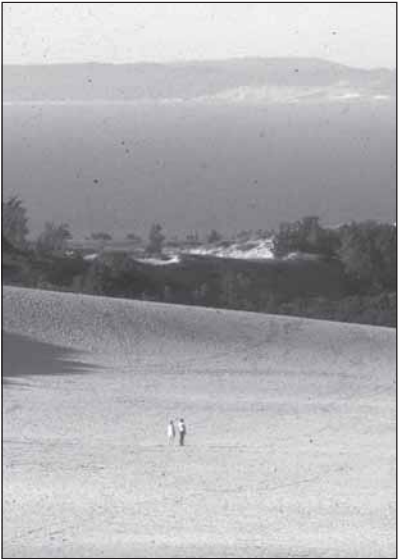


Dunes Dos and Don’ts

THE SLEEPING BEAR SAND DUNES ARE the centerpiece and namesake of Sleeping Bear Dunes National Lakeshore. Covering four square miles, this landmark is the largest freshwater dune complex in the world. Naturally, you will likely want to visit and experience it! Fortunately, it is part of your National Park System, and you are welcome to do so. However, the dunes are a very special environment which presents unique hazards and concerns. For the sake of your well-being and that of the dunes themselves, the following list of tips is offered:

- 1) **What’s the plan?** Rangers are called upon to conduct many searches each summer because folks back at the Dune Climb are concerned about companions who have been out on the dunes longer than expected. Often it turns out that there was simply a misunderstanding as to when the group would reconvene. Agree on a plan before splitting up.

- 2) **Which way is which?** Out on the dunes there are few clues as to which way you need to go to get back. The best plan is to follow one of the marked hiking trails and carry a map. That will also minimize the human impact on this fragile ecosystem. If you are determined to explore off-trail, be sure to bring a compass and keep track of your directions.
- 3) **Watch those slopes:** Steep dune slopes occasionally collapse—a dangerous situation if you are there! This is especially hazardous during winter



and early spring seasons. Another reason to avoid them is to help dune grass roots remain intact and do their job of holding the sand in place.

- 4) **Resist the ridges:** We tend to be drawn to walking along the narrow ridge tops among the dunes. However, this is another part of the dunes which is highly vulnerable to erosion. It’s best to hike on the broad open plains where possible.
- 5) **Keep it under control:** Often folks begin running down the dunes, and soon find that their legs can’t keep up with the rest of them! Resulting tumbles can cause injuries.

While careful, controlled running at the Dune Climb is relatively safe, other slopes have hidden rocks and other hazards which can cause serious injuries.

- 6) **Don’t be shoeless:** Even if you don’t wish to wear shoes at the start, throw a pair into a backpack. The sand can be very hot and abrasive and underground shoots of dune grass can stab into your feet.
- 7) **Go wet & wild:** The dunes are a bit like a desert environment, and you will need to stay hydrated. Bring a bottle of water.
- 8) **Don’t be a ghost-buster:** Everyone enjoys the “ghost forests” (trees that long-ago became buried by moving dunes, then reappeared after the dunes moved). Please leave them for they are the most photographed ghosts around. Enjoy your visit!

What is that “Green Stuff” Along the Beaches of Lake Michigan?

IF YOU HAVE BEEN A REGULAR VISITOR to this area, you have probably noticed some recent changes in the appearance of our Lake Michigan beaches. A lot of “green stuff” has been washing up on shore during the last several years, causing our beautiful sand beaches to look a lot less desirable.

The “green stuff” is an algae called *Cladophora* (*Cladophora glomerata*). Some have called it blanket weed. It is an algae that feeds on nutrients or “waste” in water. *Cladophora* is sometimes seen in streams or lakes that have problems associated with certain human activities. These can be from such things as improperly functioning septic tanks or homeowners applying too much fertilizer on lawns that drain into nearby waters. *Cladophora* can act as an indicator of changing water. To get rid of the *Cladophora* in these situations, improvements to the faulty septic system or a change in the fertilizing habits of lakeside homeowners would be necessary.

This brings up the next question. Why do we suddenly have “waste” or nutrients in Lake Michigan? *Cladophora* was historically quite sparse in Lake Michigan, but started showing up in this area in large mats a few years ago. It began proliferating about the same time that this area of Lake Michigan was colonized by the non-native zebra mussel. It is suspected that *Cladophora* feeds on the waste secretions from zebra mussels colonies found on the lake bottom. It helps if you think of nutrients or waste as a type of fertilizer for plants, and *Cladophora* is a plant. Zebra mussels supply the nutrients that are needed by *Cladophora* for the algae to thrive. Zebra mussels also filter water

when they feed, and as a result, sunlight can more easily filter into the depths of the water column. When zebra mussels became established in Lake Erie, water clarity increased from 6 inches to 30 feet in some areas! This increase in sunlight also appears to help *Cladophora* grow. As the populations of zebra mussel increase in Lake Michigan, the water environment changes. *Cladophora* is now flourishing as the zebra mussel population continues to expand and colonize the lake bottom. During certain wind or wave actions, the *Cladophora* breaks away from the lake bottom and washes up on the shore, creating large windrows of “green stuff”. As these mats of *Cladophora* pile up along the shorelines they also begin to decay and smell.



Since zebra mussels seem to be at the heart of this problem, we should explain a little more about them. In 1988 zebra mussels (*Dreissena polymorpha*) were accidentally transported from Europe to North America in the ballast water of transatlantic freighters. In less than 10 years, zebra mussels spread to all five Great Lakes and into the Mississippi, Tennessee, Hudson,

and Ohio River Basins. In 1992, only one inland lake in Michigan was infested with zebra mussels. By 2003, 184 inland lakes have been infested, and the number is expected to grow. Sleeping Bear Dunes National Lakeshore currently has five inland lakes that are infested with zebra mussels. Otter Lake, in the Trails End area, was found to have zebra mussels in 2000. They were discovered during a lake-wide survey of native mussels. Great pains were taken to find and remove every individual zebra mussel found, but without success. When the lake was again checked in 2001, they were everywhere! It remains to be seen if large mats of *Cladophora* will become established in our inland lakes.

Zebra mussels are successful because they can multiply rapidly. They are prolific invaders because they live and feed in many different aquatic habitats. Young zebra mussels are the size and diameter of a human hair and are invisible to the naked eye. They are easily spread by water currents and can drift for miles before settling. Zebra mussels can also be transported by humans as they participate in water based recreation, such as boating, fishing, or even swimming.

Human activities have spread zebra mussels into many inland lakes and streams, usually through recreational boating, fishing, and diving practices. Simple steps can prevent the spread of zebra mussels and other non-native species into new areas. These include such things as:

- Inspecting your boat hull, motor, and trailer and removing attached mussels and aquatic vegetation.



- Draining and drying all live wells, bait buckets, bilge areas and engine compartments away from areas that could drain into lakes or streams.
- Rinse your wet-suits, waders, boat, trailer or other belongings with hot water (140 degrees F) or thoroughly dry them for 7 days before using or launching.
- An alternative technique to using hot water is to immerse equipment and spray boat hulls with a salt solution for one minute. Mix 1 cup of salt to one gallon of water. Afterwards be sure to thoroughly rinse equipment to prevent corrosion.

By taking a few precautions, we can all help to prevent the spread of non-native plants and/or animals. If we are not all careful, more things like “green stuff” on the beaches could result.

Hunting in the National Lakeshore

OF THE NEARLY FOUR HUNDRED NATIONAL Park Service areas nationwide, only a small number allow hunting. Sleeping Bear Dunes National Lakeshore is one of those areas. Michigan hunting seasons often coincide with very popular visitation periods by non-hunters to the Lakeshore, such as during the time of changing fall colors. The Lakeshore Ranger staff asks both hunters and non-hunters to follow a few park rules and regulations and to work together in order to have a safe and enjoyable visit to the Park.

The Lakeshore Ranger staff recommends that non-hunters, who visit the Lakeshore during hunting seasons, wear blaze orange or other brightly colored clothing. Also, non-hunters should consider only hiking on marked, designated trails and beaches to minimize contact with active hunters. The Ranger staff can assist non-hunters with additional information concerning hunting and when the different hunting seasons occur within the Park.

The majority of Sleeping Bear Dunes National Lakeshore is open to hunting. However, most high visitor use areas and facilities are closed and include a 450 foot safety zone. The safety zone is defined as the area beginning at the edge or exterior boundary of any road, site or development

and extending outward for 450 feet. Hunting is not allowed at or near:

- All Occupied Structures
- Platte River Campground
- D.H. Day Campground
- White Pine & Valley View Backcountry Campgrounds
- D.H. Day Group Campground
- The Village Campground on North Manitou Island
- Weather Station, Bay, and Popple Campgrounds on South Manitou
- Village area on North and South Manitou Island
- Duneside Accessible Trail
- Stocking Scenic Drive (when open to motor vehicles)
- Glen Lake Picnic Area
- Good Harbor Picnic Area

Hunters are asked to be familiar with both the State of Michigan and federal rules and regulations concerning hunting in Michigan and Sleeping Bear Dunes National Lakeshore. Because hunting is not a common occurrence in most National Park Service areas, hunters should keep in mind that many park visitors are unaware that hunting activities may be ongoing within the Lakeshore at the time of their visit.

Information on the State of Michigan hunting regulations can be found in the 2003 and 2004 Michigan hunting and trapping guides. National Park Service regulations are not contained in those guides. Following are some of the regulations which hunters will need to be aware of:

1. Entrance fees are required when using park lands and waters.
2. The cutting of standing trees (alive or dead) and branches, or the possession of green vegetation is prohibited.
3. Digging or disturbing soils or vegetation is not permitted.
4. Vehicles or other wheeled devices are not allowed off roads.
5. Ground blinds may be built with natural dead or downed material, but must be dismantled at the end of the hunting season. When dismantling ground blinds, the area must be returned to its original, natural setting. All blinds must be removed within seven days after the close of the season.
6. All trash and other man-made materials must be packed out and deposited in trash receptacles.
7. Marking trees to locate trails, using spray paint, colored flagging, or reflective tacks and

- similar materials is prohibited. The blazing of trees is not allowed.
8. Tree stands and climbing devices must be in compliance with Michigan Department of Natural Resources regulations and must not penetrate or damage the bark of the tree.
 9. Target shooting or the sighting in of weapons is prohibited.
 10. Hunters can hunt with dogs when they are used in compliance with Michigan Department of Natural Resource Regulations. However, training hunting dogs within the Lakeshore is prohibited.
 11. Baiting deer on North Manitou Island is prohibited.
 12. Trapping is prohibited within the boundary of Sleeping Bear Dunes National Lakeshore.

Sleeping Bear Dunes National Lakeshore has been and will continue to be a popular place for hunting. With a little help and cooperation from both hunters and non-hunters visiting and using the parklands, the sport will continue to be an enjoyable and safe activity within the Lakeshore.

For additional information, visitors can contact the Sleeping Bear Dunes National Lakeshore headquarters at 231-326-5134.

PRESERVE HISTORIC SLEEPING BEAR

Committed to Preserving the Historic Structures and Cultural Landscapes within Sleeping Bear Dunes National Lakeshore

Who We Are

MORE THAN 350 HISTORIC STRUCTURES in Sleeping Bear Dunes National Lakeshore are listed on, or eligible for the National Register of Historic Places. Preserve Historic Sleeping Bear (PHSB) is a non-profit organization working to preserve this cultural history - its historic farmsteads, meadows, barns, lighthouses, cottages, sawmills, and lifesaving stations. History of the Great Lakes covers life settled from the water, logging, tourism and farming - a past told through these historic structures and cultural landscapes.

Formed by concerned citizens in 1998, PHSB has been successfully working in partnership with the Sleeping Bear Dunes National Lakeshore over the past five years to stabilize, and in some cases restore, highly significant historic structures. However, due to limited funds throughout the National Park Service, dozens of these historic buildings in the National Lakeshore remain endangered. Many are still in critical need of stabilization, with each northern winter taking its toll.

How You Can Help

Projects

We need your financial help to save our history. By contributing to PHSB, you help to ensure that these endangered resources remain a part of the Lakeshore for future generations to learn from and enjoy. You

may also choose to contribute to the stabilization or restoration of a specific historic structure. Donations are currently needed for the following projects:

- ◆ **C. Olsen House** - interior restoration
- ◆ **South Manitou Lighthouse** - masonry repair, cleaning & painting of lighthouse tower, walkway and keepers quarters.
- ◆ **Martin Basch Farmstead** - siding on the farmhouse, new windows and sills on the granary and farmhouse.
- ◆ **Treat Farmhouse** - paint and ventilate

Join PHSB

Show your support for the cultural resources in the park. With a donation, you add your name to the many that advocate for preserving these historic treasures. You will receive our newsletter, updates and notice of work projects.

Volunteers

Each summer the public gets involved with hands-on stabilization and restoration projects. Many hands make a big impact and volunteers feel a great sense of satisfaction. Come lend a hand!

For dates of events and volunteer work projects call 231-334-6103 or email phsb@leelanau.com

Save the Historic Treasures

I am interested in supporting the preservation of historic structures and cultural landscapes in Sleeping Bear Dunes National Lakeshore.

Please send me information on Preserve Historic Sleeping Bear

Name (Mr/Mrs/Ms) _____

Address _____

City _____ State _____ Zip _____

Phone _____ Email _____

Make tax-deductible donations payable to: PHSB
Enclosed is my check in the amount of \$ _____

Please use my donation for the following project(s):
____ PHSB General Fund for operating, and/or stabilization and restoration as areas are prioritized.
____ Charles Olsen House interior restoration
____ South Manitou Island Lighthouse painting & repair
____ Martin Basch stabilization
____ Treat Farmhouse painting and ventilation

Send this form to:
Preserve Historic Sleeping Bear
P.O. Box 453, Empire, MI 49630
(231) 334-6103
email: phsb@leelanau.com web: www.phsb.org

Or come see our interpretive displays at the Olsen House just north of Glen Arbor on M-22, before Port Oneida Road!

(Brochures are also available at the Park Visitor Center)



Manitou Islands Memorial Society

THE MANITOU ISLANDS MEMORIAL Society (MIMS) helps preserve the history and cultural traditions of the Sleeping Bear Dunes National Lakeshore's North and South Manitou Islands. MIMS distributes educational and interpretive materials and programs, keeps records of burials and gravesites of original settlers and others interred on the Islands, promotes the proper care and maintenance of the

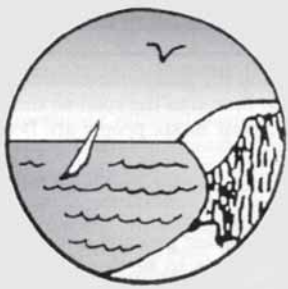
Islands' historic and cultural assets, and supports the Lakeshore as volunteers on the Islands.

This summer, MIMS has funded the employment of a full time Interpreter stationed on South Manitou Island. This island ranger greets arriving ferryboat passengers, provides an orientation talk,

helps visitors plan activities, provides guided tours of the lighthouse and village area, and bids departing visitors farewell while facilitating the boarding process at the island's dock. After hours, campers may enjoy an unexpected opportunity to sit around a campfire and listen as the Island Interpreter recounts the tales and traditions of Islanders of the past.

Thanks to this innovative idea in partnerships, 2004's summer visitors will have a uniformed interpretive ranger to help them better understand and appreciate what life was once like living on South Manitou, and are likely to enjoy rich experiences on the Island. For more information about the Manitou Islands Memorial Society, visit their website at www.manitouislands.org.





The Friends of Sleeping Bear Dunes

Our Mission

Dedicated to assisting in the preservation, restoration, and interpretation of the natural, cultural, historical, and recreational resources of Sleeping Bear Dunes National Lakeshore

Founded in 1994, we celebrate our 10th Anniversary in 2004!



Visitors enjoy the views from Lake Michigan Overlook, Stop #9 on the Scenic Drive. The spotting scope was donated by The Friends of Sleeping Bear.

The Uniqueness of the Friends

Sleeping Bear Dunes National Lakeshore is fortunate that more than 500 people annually do volunteer work for the park. Among these are many members of the Friends of Sleeping Bear Dunes. All volunteer activity is appreciated by park personnel because it helps in the achievement of the goals for which the park was established. People often ask, "What do the Friends do to help the park that differs from general volunteer work?" One of the main differences is that the friends can obtain and administer grants and memorial funds which individuals, companies, or other organizations wish to provide for the benefit of the Park.



Two sand wheelchairs have been supplied to the Park by the Friends. They are available at the Dune Center and Sleeping Bear Point Maritime Museum.



The Friends manage the Adopt-A-Trail Program for the Park.



One of the major Friends projects was the restoration of the D.H. Day Log Cabin.



Special projects in the village of Glen Haven.



Dune Grass Planting.

Friends Membership Application

Individual Memberships: () \$20 Additional Contribution \$ _____
Family Memberships: () \$40 Additional Contribution \$ _____
Business/Corporate Members: () \$100 Additional Contribution \$ _____

Name(s): _____

Address: _____

Please make checks payable to: **Friends of the Sleeping Bear Dunes, Inc.**
P.O. Box 6344, Traverse City, MI 49696

All Contributions are Tax-Deductible

Shielding Tree Nature Center

Celebrating the Wild Wonders of Nature
with All Ages Since 1992



SHIELDING TREE NATURE CENTER WAS officially formed as a non-profit, 501(c)(3) corporation in 1992, with the goal of providing a nature center for our regional community. The mission and purpose of Shielding Tree is to nurture in people of all ages an awareness and appreciation of our environment, and to strengthen our connection with the natural world. The meadows, woods and wetlands behind Pyramid Point make a glorious place to explore and study ~ our own "back yard"!

On March 19, 1999, Shielding Tree Nature Center became the first non-profit group to sign a special use permit to occupy a historic property within Sleeping Bear Dunes National Lakeshore. Our agreement allows the organization to restore and maintain the Lawr Farm in the Port Oneida Rural Historic District for use as a nature center. Surrounded by open meadows, wetlands, and wooded hills, Shielding Tree enjoys a peaceful respite from urban sprawl, yet is conveniently located just over 20 miles north of Traverse City, 4 miles north of Glen Arbor, and 12 miles south of Leland, at 3378 West Harbor Hwy, (M-22). You are invited to visit us

anytime. The trails are always open. The farm house contains hands-on displays, library, and offices. The restored portion of the barn is a wonderful 3-season shelter for our camps, programs, music and dancing. Once completed, the restored dairy addition to the barn will become a year-round classroom. The Center is open Monday through Saturday from 10 a.m. to 4 p.m., and for special programs, events, and visits from schools, clubs, other groups as announced. Please come in to introduce yourself and sign our guest book when you visit. We look forward to meeting you!

Shielding Tree Nature Center could not exist without the efforts of many friends. Please call us at 231-334-7649 if you would like to volunteer. Volunteer opportunities include Center Host, Office Assistant,

Shielding Tree Nature Center
3378 West Harbor Highway
Maple City, MI 49664
Phone: 231-334-7649
Fax: 231-334-7648
Email: info@shieldingtree.org
Web: www.shieldingtree.org

Committee Member, Gardener, Friendly Farmhand, Program Trainee/ Leader, Board Member and more. We make every effort to match your motivation, skills, and time with Nature Center needs. We also accept donations of any amount. And we are grateful that so many help us to further our mission in so many ways! Thank you.

2004 PROGRAM SCHEDULE
We update and add to our schedule regularly, so be sure to check our website for a complete list of events and activities at www.shieldingtree.org. Please call us

ahead to register for programs: 231-334-7649. There may be a materials donation for some workshops.

SUMMER CAMP PROGRAMS
For grades 3 and up, offered late June - July. This year we're teaming up again with Leelanau County 4-H to offer outdoor adventures: Junior Naturalist, Eco-Explorer, Backwoods Adventure, and Island Adventure. Call 231-334-7649 for detailed descriptions, fees, and registration information.



Shielding Tree Nature Center



Nature Center student's learning about their world in an outdoor classroom.

2004 View From The Dunes

Park Information	
Park Headquarters	(231) 326-5134
Phillip A. Hart Visitor Center	(231) 326-5134, ext 328
Platte River Campground	(231) 325-5881
D.H. Day Campground	(231) 334-4634
Sleeping Bear Dunes Website	www.nps.gov/slbe
Sleeping Bear Dunes Email Address	slbe_interpretation@nps.gov
Local Tourism Information	
Benzie County Chamber of Commerce	(231) 882-5801
	www.benzie.org
Leelanau County Chamber of Commerce	(231) 256-9895
	www.leelanauchamber.com
Traverse City Chamber of Commerce	(231) 947-5075
	www.tcchamber.org
Traverse City Convention	(231) 947-1120
& Visitors Bureau	www.tcvistor.com
IN CASE OF EMERGENCY - DIAL 911	
Sleeping Bear Dunes National Lakeshore is one of 387 National Park Service units. The National Park Service cares for special places saved by the American people so that all may experience our heritage.	

EXPERIENCE YOUR AMERICA

See What’s New At Our Eastern National Sales Outlets!



Philip A. Hart Visitor Center

The Philip A. Hart Visitor Center contains a large array of books,maps, postcards, games, and other fun & educational items related to the resources of the park. The center is located in Empire and is open year round except for Thanksgiving, Christmas, and New Years Day. From Memorial Day to Labor Day, the center is open 8:00 a.m. to 6:00 p.m. Between Labor Day and Memorial Day, the center is open from 9:00 a.m. to 4:00 p.m. Come see what’s new !



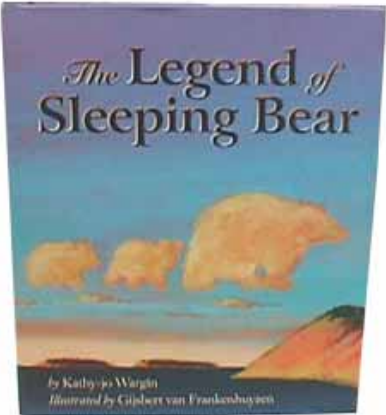
Dune Center Bookstore

The Dune Center Bookstore features T-shirts, sweatshirts, hats, nature games, postcards, books, videos, and convenience items. The bookstore is located at the Dune Climb and is open Memorial Day weekend through Labor Day from 11:00 a.m. to 4:00 p.m. During June, the bookstore is closed on Tuesday, Wednesday, and Thursday. While enjoying the Dune Climb, plan to stop in and take a look around. It’s COOL inside the Dune Center Bookstore!



Glen Haven General Store

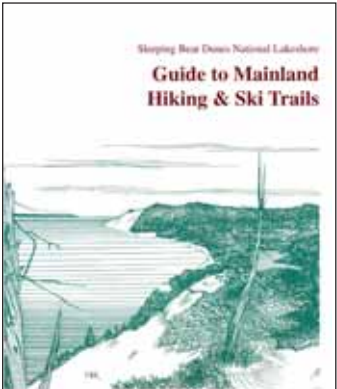
The Glen Haven General Store appears much as it did during the 1920s and features typical general store merchandise and items related to the history of the Glen Haven area, including kitchenware, prepackaged foods, toys, maritime related items and books. The store also contains a small museum / exhibit area. It is open from Memorial Day weekend through Labor Day from 11:00 am to 4:00 p.m. During June, the store is closed on Tuesday, Wednesday, and Thursday. Plan to stop by and take a step back to the 1920s!



The Legend of Sleeping Bear is the State Children’s Book of Michigan

Eastern National

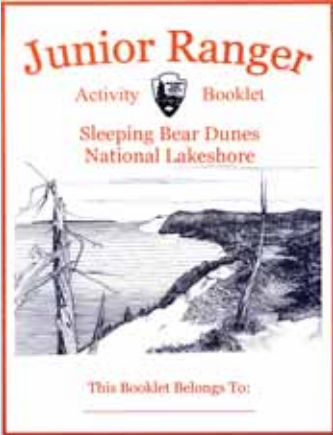
Serving America’s National Parks and Other Public Trusts



A complete guide to all hiking and ski trails in the park. \$3.00 + tax.

Be A Junior Ranger!

Stop at the Philip A. Hart Visitor Center in Empire to obtain your Junior Ranger Workbook. The cost is only \$1.95 + tax. Complete the fun challenges throughout your visit and bring it back to the Visitor Center for your Junior Ranger Badge or Patch!



The new Junior Ranger Book. Available Memorial Day weekend. Check it out!



Complete all required sections of the Junior Ranger Book and receive a Junior Ranger Patch!